

ABSTRACT OF THE DISCLOSURE

A door suspension system includes a rail support attachable to a crosspiece of a door and having a part shaped as a rigid substantially flat plate that supports a rail. A pair of brackets, each having a connector, are attached to support block having an opening in which the rail is partially received. The connectors have a substantially C-profile embracing the flat plate and the rail. A support strip is attached to the connectors and is provided with a connection device for suspending the door of an elevator. A magnetic way is attached to the plate and an elongated primary of a linear motor is attached to the strip in such a manner that the attraction force between the magnetic way and the primary cancels at least partially the weight of the door. The door suspension system further includes a bearing of substantially cylindrical shape with an axial recess. The bearing is mounted in the opening of the support block to guide the rail.

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